# ViewPoint

VPx-<u>C</u>onfiguration <u>and Analysis Tool (VCAT)</u>

**User's Manual** 

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# MesaLabs

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# 2.0 Introduction



The VPx Configuration and Analysis Tool (VCAT) can be used to configure the following settings on a VPx Sensor:

- 900 MHz- Radio type, Network ID, Hop Table Index, and Preferred Link Partner.
- Wi-Fi -SSID, Passphrase, Server ID, and other network Settings.
- Upgrade Firmware.

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# 3.0 Installation

Run the VCAT\_installer.exe.



If the application is to be installed anywhere other than in the normal location Select the option and choose the location that it is to be installed.

🖞 SetupAll Setup	
SetupAll	
Setup Options	
Install location:	
	Browse
	<u>Q</u> K <u>C</u> ancel

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Select the box, agreeing to the license terms and conditions, and click "Install".

👷 ViewPoint VCAT Setup
ViewPoint VCAT
Click Thru License Agreement
ViewPoint VPx Configuration and Analysis Tool
PLEASE READ THIS LICENSE AGREEMENT CAREFULLY BEFORE USING THE SOFTWARE. MESA WILL ONLY LICENSE THE SOFTWARE TO YOU IF YOU FIRST ACCEPT THE TERMS OF THIS LICENSE AGREEMENT BY CLICKING "ACCEPT" AND LOGGING INTO THE SOFTWARE. IF YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE AGREEMENT, YOU MAY NOT USE THE SOFTWARE
I agree to the license terms and conditions
Options Install Close

Installation is complete and a Shortcut has been created on the Desktop.



## 4.0 Setup

In order to use theVCAT, you will need:

- CM-000175 Cable, VPx USB Serial Programming.
- VPx Sensor (Any type).

Plug CM-000175 into an available USB port (device drivers will install for first time use) and to the VPx Sensor.

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Determine the COM Port for the CM-000175. To confirm the COM Port being used by CM-000175, open Device Manager by selecting Start  $\rightarrow$  Control Panel  $\rightarrow$  Device Manager.

Driver Software Installation		<b>—</b>
USB Serial Port (COM9) insta	lled	
USB Serial Port (COM9)	🖌 Ready to use	
		Close

CM-000175 will be listed under "Ports (COM & LPT)".



Plug CM-000175 into the VPx Sensor Board.

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Launch the VCAT. In top left select the correct COM Port and then press the "Open COM Port" button.



When the Comm. Port is opened, press the READ VPx Config Button.



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This will expand the window to show:

C VPx Configuration & Analysis Tool Ver. 1.0.0.0		
COM Port: COM4   READ VPx Config.	Open G5 Log	1/9/2018 10:54:24 AM
VPx S/N: 500000CA	Current FW Version: 00.58	
SSID (32 characters max, use + symbol for space(s)): MMI_TRAINING		
Pass Phrase (63 characters max.):		
1a2b3c4d5e6f		
Use WEP Use 256 Bit Hash (for SSID / Password that have s	paces or special characters)	
Server IP: 10.0.4.52		
Server Port: 1324		
DHCP Static OHCP On	O DHCP Cached	
Static DCHP Settings		
Local IP: 10.124.78.121		
SubNet Mask: 255.0.0.0		
Gateway IP: 10.128.128.128		
Apply WiFi Config.	Upgrade Firmware	
	opioda image ric(o)	

The VPx Sensor is now properly connected to the VCAT.

### 5.0 Utility

#### 5.1 Basic

Basic configuration of the VPx Sensor can be done from the main screen.

#### 5.1.1 Wi-Fi / Radio.

From the main tab, the VPx Sensor can be configured with Wi-Fi.

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VPx S/N:     500000CA     Current FW Version:     00.58       WR Settings       SSD (32 characters max, use + symbol for space(s)): MM_TRAINING       Pass Phrase (63 characters max,):       Ta2b 30:4d569       Use WEP     Use 256 Bt Hash (for SSID / Password that have spaces or special characters) Server IP:       Server IP:     10.0.4.52 Server Pot:       Server IP:     10.0.4.52 Server Pot:       DHCP Static     DHCP Cached       Extic COHP Settings       Local IP     10.124.72.121 Solvint Maix;       Scholm Maix;     255.0.0 (0.128.128.128.128)	COM POE: COM4 +	READ VPx Config.	Open G5 Log	1/9/2018 10:54:24 AM
WHR Settings SSID (32 characters max, use + symbol for space(s)): MM_TRAINING Pass Phrase (63 characters max,): Ta2b 3c45697 Use WEP Use 256 Bt Hash for SSID / Password that have spaces or special characters) Server IP: 10.0.4.52 Server Pot: 1324 DHCP Static DHCP On DHCP Cached Resic DCHP Statings Local IP: 10.124 78.121 SoNist Mark: 255.0.0 Gammary IP: 10.128.128.128	VPx S/N: 500000	CA	Current FW Version: 00.58	
SSID (32 characters max, use + symbol for space(s)) MM_TRAINING Pass Phrase (33 characters max,) 1a2b3c4d5e9 Use WEP Use 256 Bt Hash for SSID / Password that have spaces or special characters) Server IP: 10.0.4.52 Server Pot: 1324 DHCP On DHCP Cached Braic DCHP Statings Local IP: 10.124.78.121 Schlar Mark 255.0.0 Gatewary IP: 10.128.128.128	WR Settings			
Pass Phrase (I3 characters max.) 1a2b3c4d5e9 Use WEP Use 256 Bt Hash (or SSID / Password that have spaces or special characters) Server IP 10.0.4 52 Server IP 10.0.4 52 Server Pot: 1324 DHCP On DHCP Cached Relic DCHP Static Local IP Local IP SchNitt Mark, 255.0.0 Gateway IP 10.128.128.128	SSID (32 characters max, use + synth MMI_TRAINING	ol for space(s)):		
1a2b3c4d5e8         Use WEP       Use 256 Bt Hash for SSID / Password that have spaces or special characters) Server IP:         Server IP:       10.0.4 52 Server Pot:         O DHCP Static       ID DHCP On         DHCP Static       DHCP On         Basic DCHP Stating       DHCP Cached         Local IP       10.124.78.121         Schlist Mark, Gateway IP       10.128.128.128	Pass Phrase (63 characters max.)			
Use WEP Use 255 Bt Hash (or SSID / Password that have spaces or special characters) Server IP Server IP DHCP Static DHCP On DHCP Cached Relic DCHP Stating Local IP SobNet Mark Gatewary IP 10.128,128,128	1a2b3c4d5e6/			
Server IP:         10.0.4.52           Server Pot:         1324           DHCP Static         IDHCP On           Relic DCHP Statings         DHCP Cached           Local IP         10.124.78.121           Scohitt Mark:         255.0.0           Gatewary IP         10.128.128.128	Use WEP Use 256 Br for SSID /	Hash Password that have space	or special characters)	
Server Pot:         1324           DHCP Static         DHCP On         DHCP Cached           Static DCHP Setinger         Ional IP         Ion124.78.121           SchNitt Mark         255.0.0         Gateway IP           Gateway IP         I0.128.128.128	Server IP	10.0.4.52		
DHCP Static     DHCP On     DHCP Cached      Static DCHP Setinge      Local IP     10.124.78.121      SchNitt Mark     255.0.0      Gateway IP     10.128.128.128	Server Port	1324		
Static DCH# Settings           Local IP           SubNet Masic           Gatewary IP           10.128.128.128	O DHCP Static	e DHCP On 🕥	DHCP Cached	
Local IP 10.124.78.121 SobNet Marke Gatewary IP 10.128.128	Static DCHP Settings			
Subhat Mask Gateway P 10.128.128.128	Local IP	10.124.78.121		
Gateway IP 10.123.123.123	SubNet Mask	255.0.0.0		
	Gateway IP	10.128.128.128		
	Apply WIR Config.		Upgrade Firmware	
Apply WIR Config. Upgrade Rimware			Upload Image File(s)	
Apply WIRi Config. Upgrade Filmware Upload Image File(s)				

- **SSID** (Service Set Identifier) a series of 0-32 octets used as an identifier for a wireless LAN.
- **Pass Phrase** used to control access to SSID.
- Use WEP (Wired Equivalent Privacy) Wireless security algorithm.
- Server IP ViewPoint Server IP address.
- **Server Port** Port in which VPx communicates with ViewPoint server.
- **DHCP Static** IP address assigned to device (does not change).
- **DHCP On** (Dynamic Host Configuration Protocol) client/server protocol that automatically provides an IP address, subnet mask and default gateway.
- **DHCP Cached** Receives IP address from DHCP server, before the lease expires, the DHCP server must renew the lease for the client.

After the changes have been made, click Apply.

#### 900 MHz

- Radio Type Type of radio utilized by VPx sensor.
- Network ID Network (Net) ID, used to allow sensors to connect with host device (Access Point).
- Hop Table Index –

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- Standard and Mobile Access Standard 900 MHz radio configuration (902-928 MHz ISM band).
- **Mobile Access –** 905.6-923.6 MHz.
- Spectra Link Lower Band 905.2-914 MHz.
- Spectra Link Upper Band 914.75-926 MHz.
- **Test Constraint** Used for testing purposes only.
- **Preferred Link SN –** SN of static Link Partner.

After the changes have been made, click Apply.

#### 5.1.2 Firmware Upgrade.

The Firmware Upgrade files will be provided from the Mesa Service Dept.

From the main page, the firmware and the images on the files can be upgraded using the Upgrade Firmware and the Upgrade Images buttons:

			-		
VPx S	/N: 500000	CA	Current FW 1	Vension: 00.58	
WR Settings					
SSID (32 char MMI_TRAINI	acters max, use + symbo NG	of for space(s))			
Pass Phrase (	63 characters max.):				
1a2b3c4d5e6	¥				
🖂 Use WEP	To Use 256 Bt for SSID / P	Hash assword that have :	spaces or special characte	era)	
	Server IP:	10.0.4.52			
	Server Port:	1324			
	DHCP Static	DHCP On	O DHCP Cached		
	Static OCHP Settings				
	Local IP	10.124.78.121			
	SubNet Mask:	255.0.0.0			
	Gateway IP	10,128,128,128			
Apply V	WR Config.		6	Upgrade Firmware	
			6	Upload Image File(s)	